## AMENDMENTS TO THE CLAIMS

Docket No.: 20513-00611-US1

This listing of the claims will replace all prior versions and listings of the claims in this application.

## LISTING OF THE CLAIMS:

Claims 1-9. (Canceled)

10. (Currently amended) A device for balancing the pressures of first and second fluids contained respectively within first and second circuits or receptacles, wherein the device comprises:

first and second valves respectively comprising first and second valve bodies respectively defining first and second chambers communicating via first and second admission orifices respectively with the first and second circuits or receptacles respectively containing the first and second fluids, and communicating via respective exhaust orifices with respective exhaust means for the first and second fluids, at least one first valve member and at least one second valve member mounted to move respectively in the first and second chambers along an axial actuation direction between a position for closing and a position for opening the exhaust orifices of the first and second chambers respectively, a first piston and a second piston each constituted by a rigid plate secured respectively to the first or to the second valve member, and a flexible metal wall of a bellows secured in leak tight manner to the rigid plate of the respective piston and to an element of the first and the second valve bodies respectively, so as to constitute a closed chamber having a wall that is deformable in the actuation direction, and first and second resilient return means for returning the first and second valve members respectively into the closed position; and

wherein the first closed chamber of the first piston of the first valve is in communication with the chamber of the second valve, and the closed chamber of the second piston of the second valve is in communication with the chamber of the first valve.

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wherein the chamber of the first valve and the chamber of the second valve are separated from each other by a wall, said wall having fixed thereon, on a first side inside the chamber of the first valve, the metal wall of the bellows of the first piston, and on a second side inside the chamber of the second valve, the metal wall of the bellows of the second piston, the separation wall of the body of the balancing device having passing therethrough a first channel for putting the first closed chamber of the first piston into communication with the chamber of the second valve, and a second channel putting the closed chamber of the second piston into communication with the chamber of the first valve.

- 11. (Currently amended) A device according to claim 10, wherein the body of the first valve and the body of the second valve are interconnected and in axial alignment along a common actuation direction of the first and second valves so as to constitute a body of the balancing device, the chamber of the first valve and the chamber of the second valve being separated from each other by a wall extending transversely relative to the actuation direction of the body of the balancing device, said wall having fixed thereon, on a first side inside the chamber of the first valve, the metal wall of the bellows of the first piston, and on a second side along the actuation direction inside the chamber of the second valve, the metal wall of the bellows of the second piston, the separation wall of the body of the balancing device having passing therethrough a first channel for putting the first closed chamber of the first piston into communication with the chamber of the second valve, and a second channel putting the closed chamber of the second piston into communication with the chamber of the second valve.
- 12. (Previously presented) A balancing device according to claim 10, wherein the body of the first valve and the body of the second valve are built from two assembled portions respectively defining a first portion of the valve chamber in which the admission opening and the exhaust opening are provided, and a second portion in which there are disposed the first and second pistons respectively, the first and second portions of the chambers of the first and second

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valves being separated by respective walls of the body of the valve having respective openings formed therethrough on the axial actuation direction and in which there are disposed respective guide bearings for the corresponding valve members, each of which comprises a rod mounted on the axial actuation direction with one axial end secured to the corresponding piston and with the opposite end, inside the first portion of the valve chamber, carrying a shutter member.

13. (Previously presented) A balancing device according to claim 10, wherein the first valve member of the first valve and the second valve member of the second valve include respective shutter assemblies for shutting the exhaust openings, each of said assemblies including a pilot valve shutter member secured to one end of a rod of the valve member and a main shutter member having a surface for bearing against a seat of the exhaust opening and a central cavity in which the shutter member of the pilot valve is engaged with freedom to move along the direction of the actuation axis of the valve, the pilot valve shutter member communicating with the outside of the main valve via a channel that the pilot valve shutter member is capable of closing.

14. (Previously presented) A device according to claim 10, wherein the first and second resilient return means of the first and second valve members are constituted by helical springs interposed between respective thrust surfaces of the first and second valve members and thrust surfaces of a valve body corresponding to the balancing device.

15. (Previously presented) A device according to claim 14, wherein the helical spring has at least one of its ends thrusting against a thrust plate at a position that is adjustable along the actuation direction of the valve of the balancing device. Application No. 10/533,065

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16. (Previously presented) The use of a balancing device according to claim 10, for

adjusting the pressures of first and second fluids to values that are substantially equal in

respective feed circuits for first and second heat exchanger portions of a heat exchanger, the use

including the following steps:

- connecting the first and second admission orifices to said respective feed circuit for first

and second heat exchanges portions;

- connecting the first and second exhaust orifices to respective exhaust pipes;

- receiving the first and second fluids in the first and second chambers of the first and

second valves respectively, the first and second valve member being in respective closed

position,

- receiving the first and second fluids in the second and first closed chambers of the

second and first valves respectively, so that when the difference of pressure between the first

chamber and the second chamber is higher than a given limit the first or the second valve

member moves towards its opening position.

17. (Previously presented) A use according to claim 16, wherein the heat exchanger is a

plate heat exchanger.

18. (Previously presented) A use according to claim 16, wherein the first heat exchanger

circuit is for receiving a secondary heat exchange gas containing nitrogen in an installation for

producing electricity by using a high temperature nuclear reactor, and the second heat exchange

circuit is the primary circuit of the high temperature nuclear reactor cooled by a gas such as

helium.

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